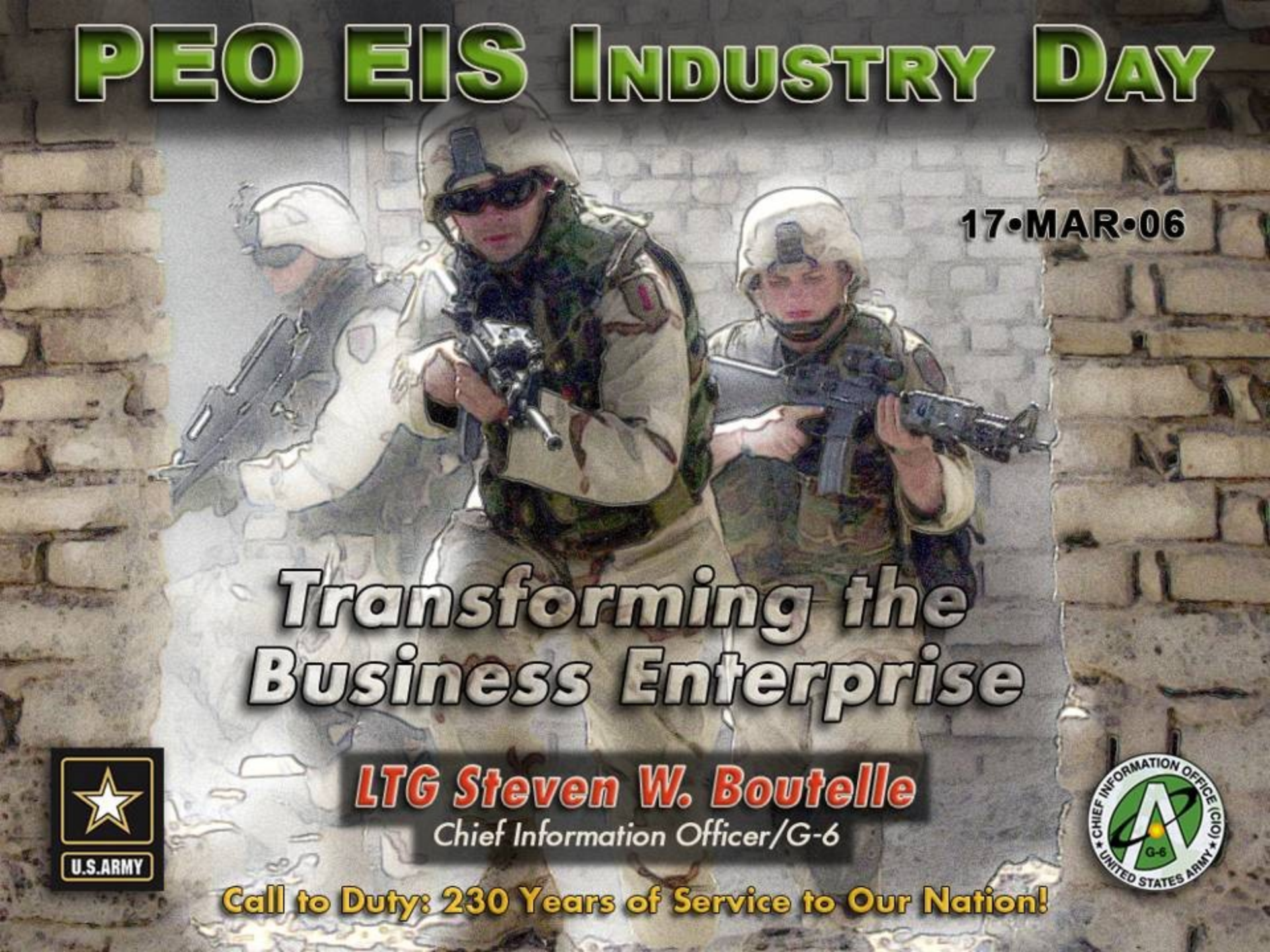
PEO EIS Industry Day



17•MAR•06

Transforming the Business Enterprise

LTG Steven W. Boutelle

Chief Information Officer/G-6

Call to Duty: 230 Years of Service to Our Nation!

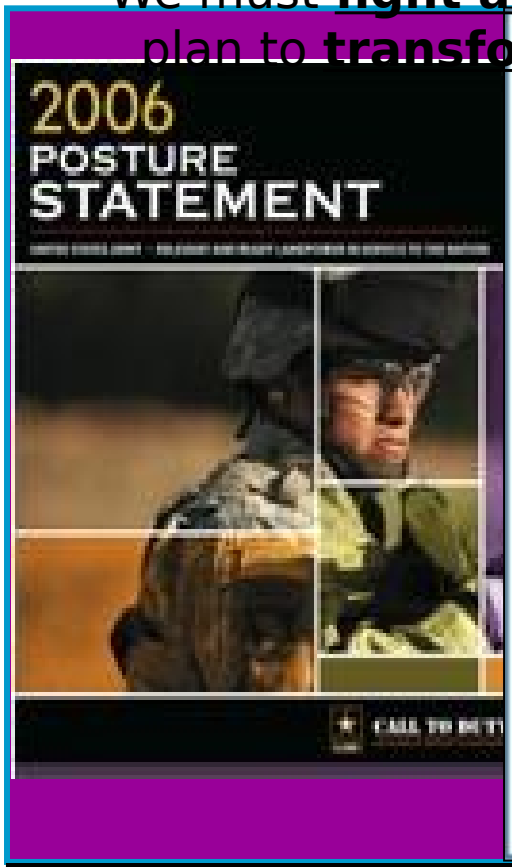
U.S.ARMY

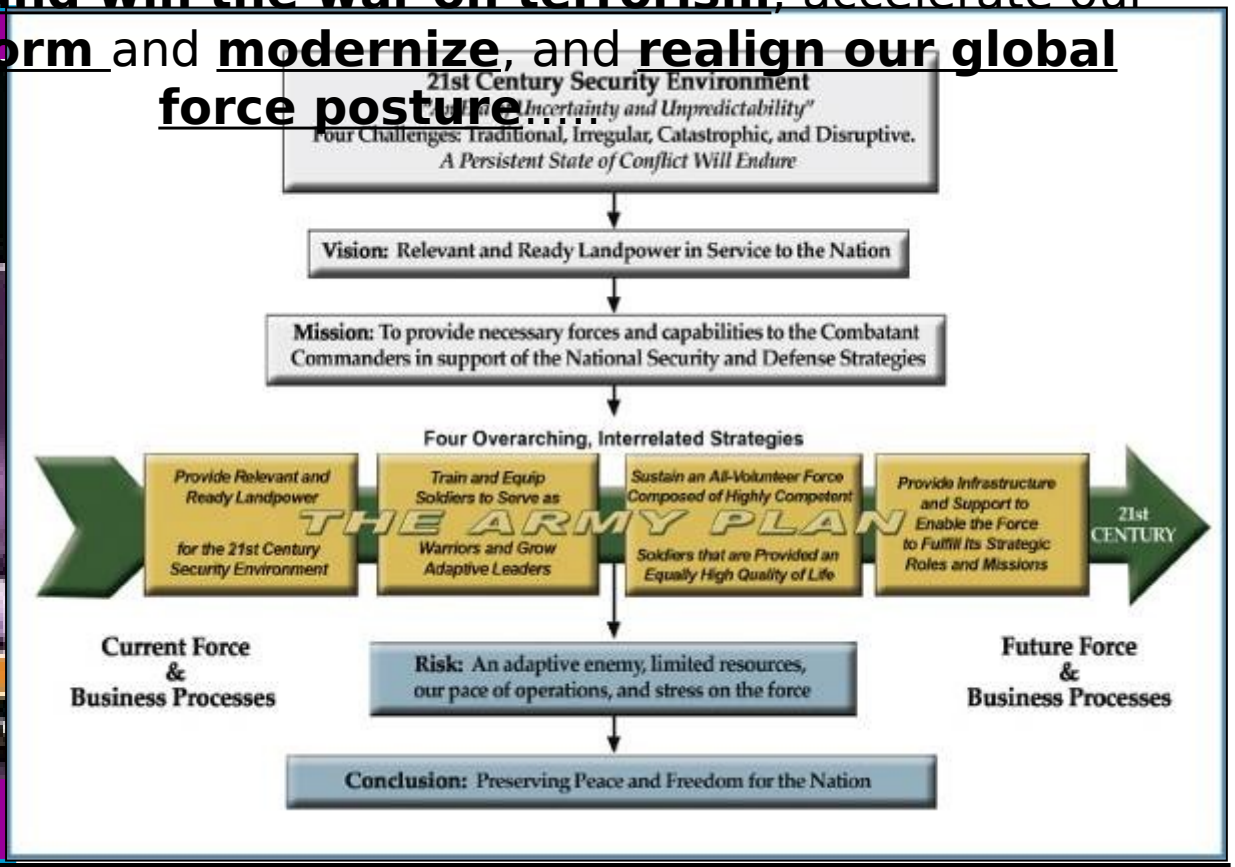
CHIEF INFORMATION OFFICE (CIO) G-6 UNITED STATES ARMY

The New Reality

The Army Plan is driving change at an unprecedented pace.

We must **fight and win the war on terrorism**, accelerate our plan to **transform** and **modernize**, and **realign our global force posture**….





We are executing the Army Plan to accomplish our mission and realize our vision.

Why a 500 Day Plan?

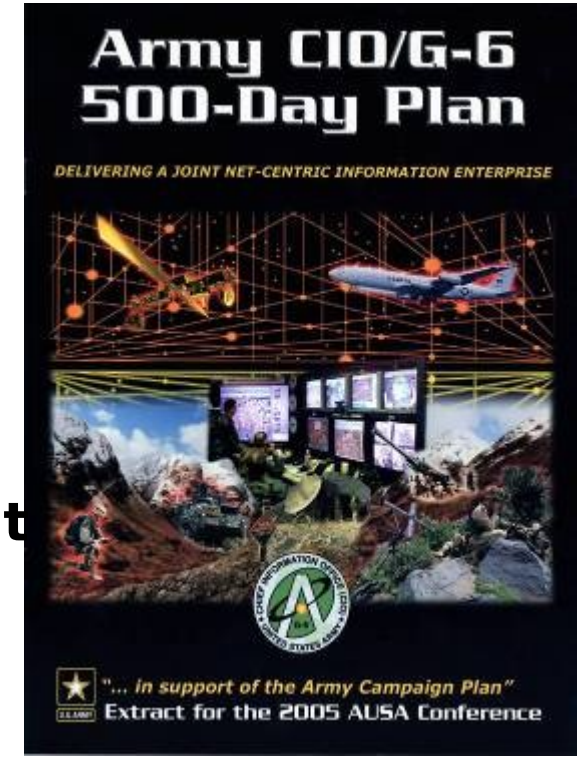
- **To achieve the Vision:**

  Deliver a joint net-centric information enterprise that enables warfighter decision superiority

- **To complete the Mission:**

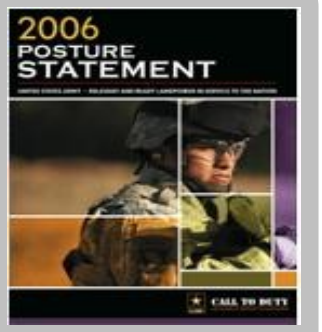
  Provide architecture, governance, portfolio management, strategy, command, control, communications, computers and information technology, acquisition oversight and operational capabilities to enable joint expeditionary net-centric dominance for the Army

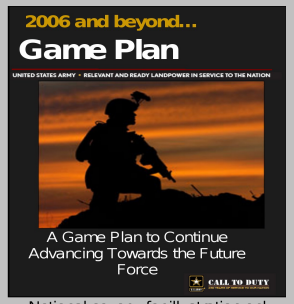
- **To maintain the focus**
  - **We are an Army engaged in a Global struggle**
    - **…facing ever increasing complex irregular challenges**
  - **The Challenge**



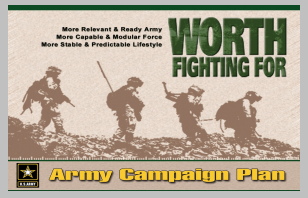
Strategic Alignment and Execution

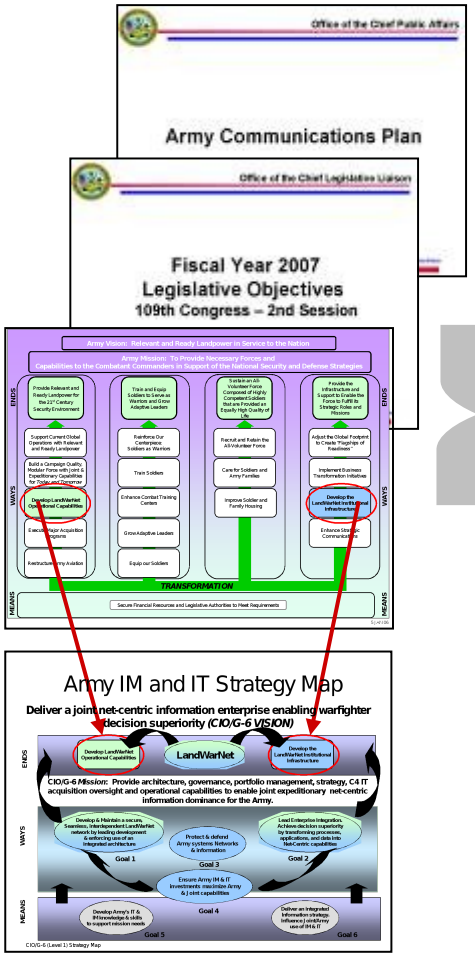
Metrics

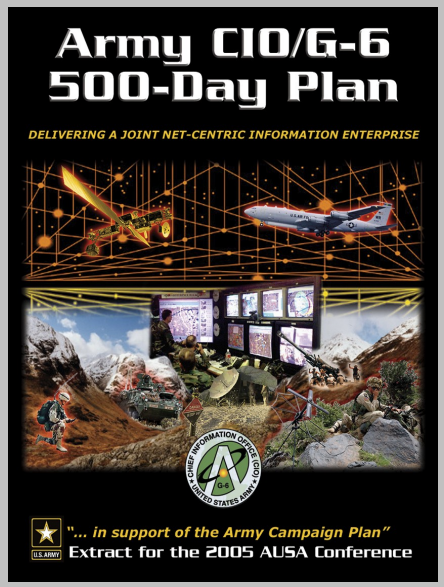




Notional cover...for illustration only







Goal 1

Develop and maintain a secure, seamless, interdependent LandWarNet Network

- Signal Restructure
- Network Architecture Development
- Army Implementation of DOD Net-centric Data Strategy
- **CTSF – BC and BE Interoperability**
- Development of Army Enterprise NetOps Integrated Architecture (AENIA)
- **Installation Infrastructure Improvement** (I3MP, Single DOIM, APCs, AD, Exchange 2003, MS Enterprise Licenses)
- IT/VI Metrics Program
- **Joint Network Node** (Systems Architecture, Regional Hubs, JIOC-I)
- DoD Teleport & Ka STARS
- **SATCOM (Wide/Narrow Band, Airborne, MBCOTM, Protected SATCOM)**
- SPECTRUM
- Future Combat Systems (JTRS, Land Warrior, WIN-T, JNMS)

Central Technical Support Facility

30 Nov 05 CTSF OPCON / TECHCON to CIO/G-6

Fort Hood, Texas

Working our way through it…

Achieving Service Joint & Coalition Interoperability

"Brings Together in one Place"

- **Soldiers**
- **Industry**
  - **Software Programmers**
  - **Technicians**
- **Test Community**
- **Trainers**
- **Warfighter Systems**

I3MP Restructure

- **Was – Installation and generating force centric**
  - **Local Area Network**
  - **Telephone**
  - **DISN Connection**
  - **Outside Cable Plant – Fiber based**
- ***Is Now – Operational Force and Enterprise centric***
  - **Expand to training ranges, motor pools, HSOC, SIPRNET to Battalion, etc**
  - **Focus on transformation and BRAC/IGPBS**
  - **Build Area Processing Centers, Exchange 2003 hubs, Directory Service, etc.**
  - **Converge on IP……VTC/Video/Voice over IP**
  - **Implementing wireless optics….**

Installation Modernization

$4 Billion Installation Modernization (IMOD) Contract for DOD wide installation- level information infrastructure around the world.

To Award in 3QTR FY06

- Replaces the Digital Switched Systems Modernization Program (DSSMP) Contract
- Seamlessly integrates **voice, data, outside cable plant and transmission** products and services

The Joint Model - Everything over IP

- FIRST … the Joint Special Operations Command - Fort Bragg
- THEN …. the Joint Communications Support Element - MacDill AFB
  - Iraq
  - Afghanistan
- NOW!!!

- **Everything over Internet Protocol**
  - **Scalable**
  - **Flexible**
  - **Efficient**
  - **Less cost, smaller footprint, less people.**
  - **EoIP will converge & reduce training requirements**

Everything Over IP (EOIP) Refit

Converged IP

- Voice
- Secure Networks
- Data
- Unclassified Networks
- Video Teleconferencing

JOINT COMMUNICATIONS SUPPORT ELEMENT

To address inefficiencies of traditional bandwidth allocations……migrate

The Joint Model - Everything over IP

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JOINT COMMUNICATIONS SUPPORT ELEMENT

To address inefficiencies of traditional bandwidth allocations……migrate

EoIP - Doing it NOW!!

EoIP - Doing it NOW!!

Reset

101st Airborne Division writes from OIF, Nov 05:

“JNN works…It provides quality DSN services, NIPR and SIPR connections faster than at Ft Campbell. ..All services are functioning.”

“JNN is the present and must be the future for the near-term…”

“… it is the stepping stone to the future for the long-term.”

Current Units - Jan 06

“Fabulous system. Even without a lot of training…we were able to provide connectivity to the BCT in short order…”

“The VoIP phones are a big winner as well. Very clear and user friendly.”

”I am running service to essentially a small town off of the JNN (which is handling the load well beyond my expectations).”

One Stop Shopping

$5 Billion World-wide Satellite Systems ID/IQ Contract

PEO EIS PM DCATS **News**

Proj Mgr, Defense Communications & Army Transmission Systems (PM DCATS)
Release No: 05-11-02
Contact: Stephen Larsen (732) 427-6756 Stephen.Larsen@US.Army.MIL

$5 billion World-Wide Satellite Systems contract will offer one-stop shopping for federal agencies

FORT MONMOUTH, N.J. – Federal agencies – both DoD and non-DoD – requiring commercial satellite terminals and associated services will soon be able to order what they need, when they need it, from the World-Wide Satellite Systems (WWSS) contract, a comprehensive indefinite delivery/indefinite quantity (ID/IQ) contract.

Army officials expect the WWSS solicitation to be released to industry in the first quarter of fiscal year 2006, with contract award slated for the third quarter of fiscal year 2006.

A partnership of the Project Manager, Defense Communications and Army Transmission Systems (PM DCATS) and the Project Manager, Warfighter Information Network-Tactical (PM WIN-T), the WWSS contract will have a ceiling value of $5 billion over a term of five years.

The WWSS contract will offer six commercial satellite terminal types: Combat Support Service Very Small Aperture Terminals (CSS VSATs), fixed-station satellite terminals, flyaway VSATs, military-certified satellite terminals, prime mover/trailer-mounted satellite terminals and deployable satellite earth terminals. Depending on user requirements, these satellite terminals may be required to operate on any military or commercial satellite in the C, Ku, X and Ka bands.

"We plan to award the WWSS contract to up to six prime contractors," said Kevin Carroll, the U.S. Army's Program Executive Officer, Enterprise Information Systems (PEO EIS). "Each prime contractor will be required to provide complete turn-key solutions, including hardware, software, support services and data."

Order SATCOM Services

Combat Support Service Very Small Aperture Terminals (CSS VSATs)

Flyaway VSATS

Military certified satellite terminals

Fixed Station satellite terminals

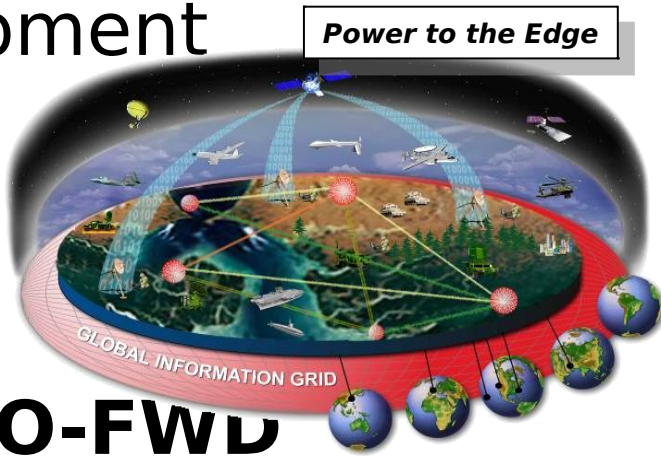
Deployable satellite earth terminals

Prime mover/trailer-mounted satellite terminals

Goal 2

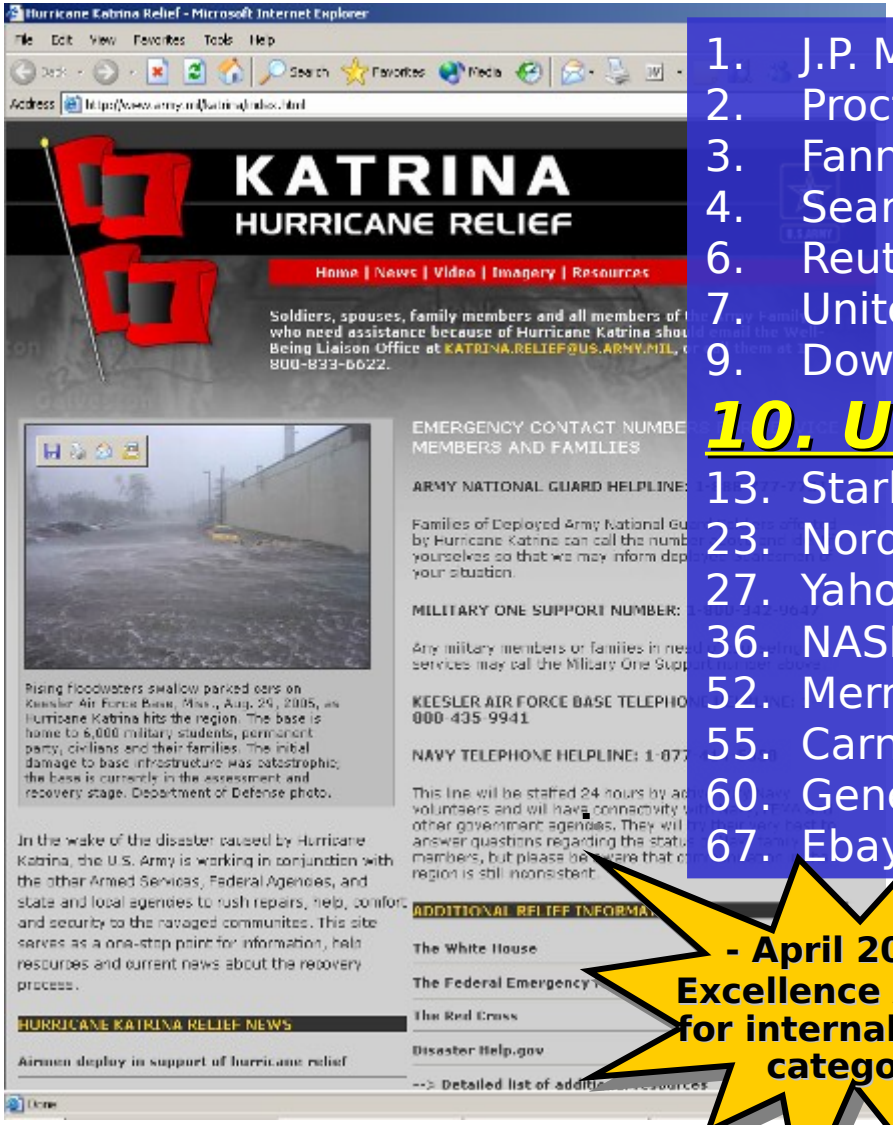
Lead enterprise integration to achieve decision superiority by transforming processes, applications and data into network-centric capabilities across the Army.

- Army Mission Area Domain Architecture Development
- Community of Interest Development
- Enterprise Governance
  - …AKM Memoranda
  - …Clinger-Cohen Act Assessments
- **Army Knowledge Online/AKO-FWD**
- Enterprise Solutions Competency Center
- **Portfolio Management (PfM)**



AKO – A Global Perspective

.....AKO to the Edge



1. J.P. Morgan Chase
2. Proctor & Gamble
3. Fannie Mae
4. Sears, Roebuck & Co.
6. Reuters
7. United Parcel Service of America
9. Dow Chemical
10. ***United States Army***
13. Starbucks
23. Nordstrom
27. Yahoo
36. NASDAQ
52. Merrill Lynch
55. Carnegie Mello
60. General Motors
67. Ebay

CIO
The CIO 100
HONOREE
2005

- April 2003 - Excellence Award for internal portal category

Defense Knowledge On-Line

- **Senior Army and DISA leaders see an opportunity for synergy and quick succ**

"DISA…wants to turn AKO into a department wide Web portal for accessing the Army's, DISA's and potentially other services' products." FCW 21 Nov 05

LTG Croom "The military can no longer afford to lumber its way through software acquisition."

- **AKO and DISA personnel …. create, provision, deploy and support a new portal to serve as the portal for NCES; known as "DKO" or "DOL"**
  - ✓ **Single entry point - Subordinate layers for each service**
  - ✓ **Implemented on AKO hardware/software and technically managed by the Army Project Office**
  - ✓ **Supports future integration of NCES services as they come online**
  - ✓ **Managed by a Joint Board of Directors, initially chaired by**

Army Governance Structure

Army Alignment with GIG ES Governance

Business Mission Area (BMA)
Army Lead: DUSA

Governance

- **Acquisition** — Army Lead: ASA(ALT)
- **Financial Management** — Army Lead: ASA(FM&C)
- **Human Resource Management** — Army Lead: ASA(MR&A)
- **Logistics** — Army Lead: ASA(ALT)
- **Installations & Environment** — Army Lead: ASA(I&E)
- **Civil Works** — Army Owner: ASA(CW)

Warfighting Mission Area (WMA)
Army Lead: G-3/5/7

Governance

- **Battlespace Awareness** — Army Lead: G-2
- **Force Application** — Army Lead: G-8
- **Force Protection** — Army Lead: G-8
- **Focused Logistics** — Army Lead: G-4
- **Net Centric** — Army Lead: CIO/G-6
- **Force Management** — Army Lead: G-3/5/7 / FM
- **Training** — Army Lead: G-3/5/7 / TR
- **Command & Control** — Army Lead: G-3/5/7 / SB Lead

Enterprise Information Environment Mission Area (EIEMA)
Army Lead: CIO/G-6 (GA&CKO)

Governance

- **Communications** — Army Lead: CIO/G-6 (AONS)
- **Computing Infrastructure** — Army Lead: CIO/G-6 (AONS)
- **Core Enterprise Services** — Army Lead: CIO/G-6 (GA&CKO)
- **Information Assurance** — Army Lead: CIO/G-6 (GA&CKO)

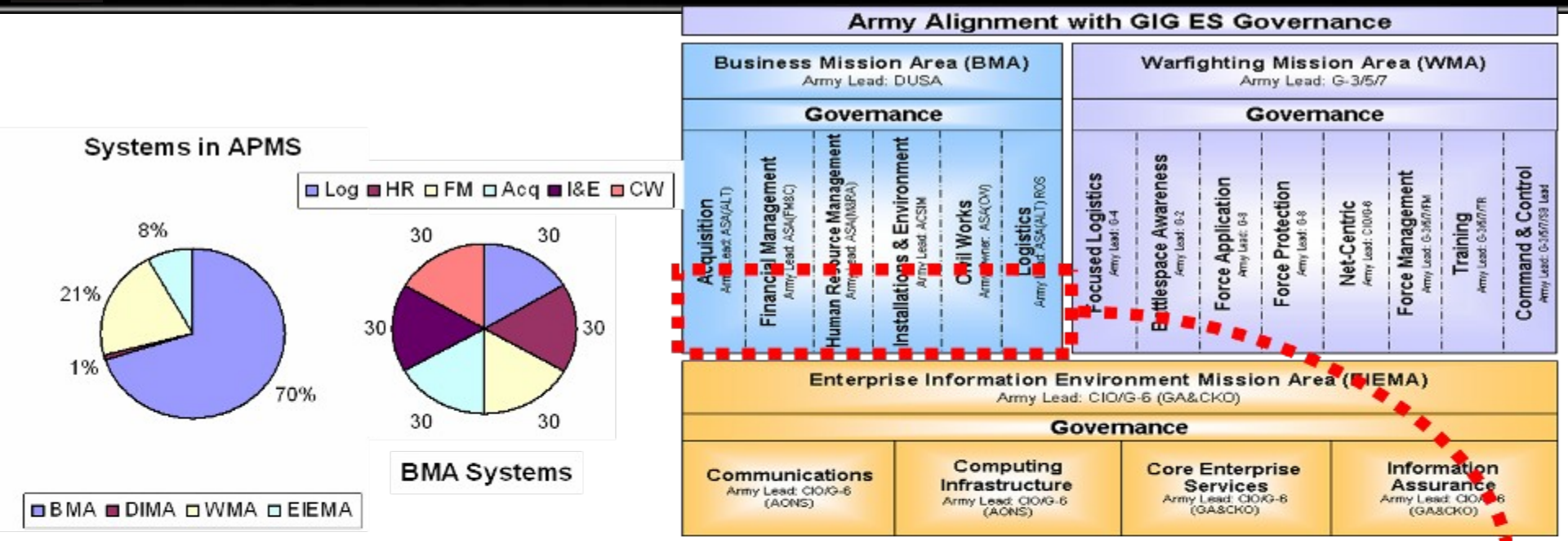
Defense Intelligence Mission Area (DIMA)
Army Lead: G-2

Governance

Domains TBD

4 Mission Areas:
- 18 Domains

ERP Fits Across Mission Areas

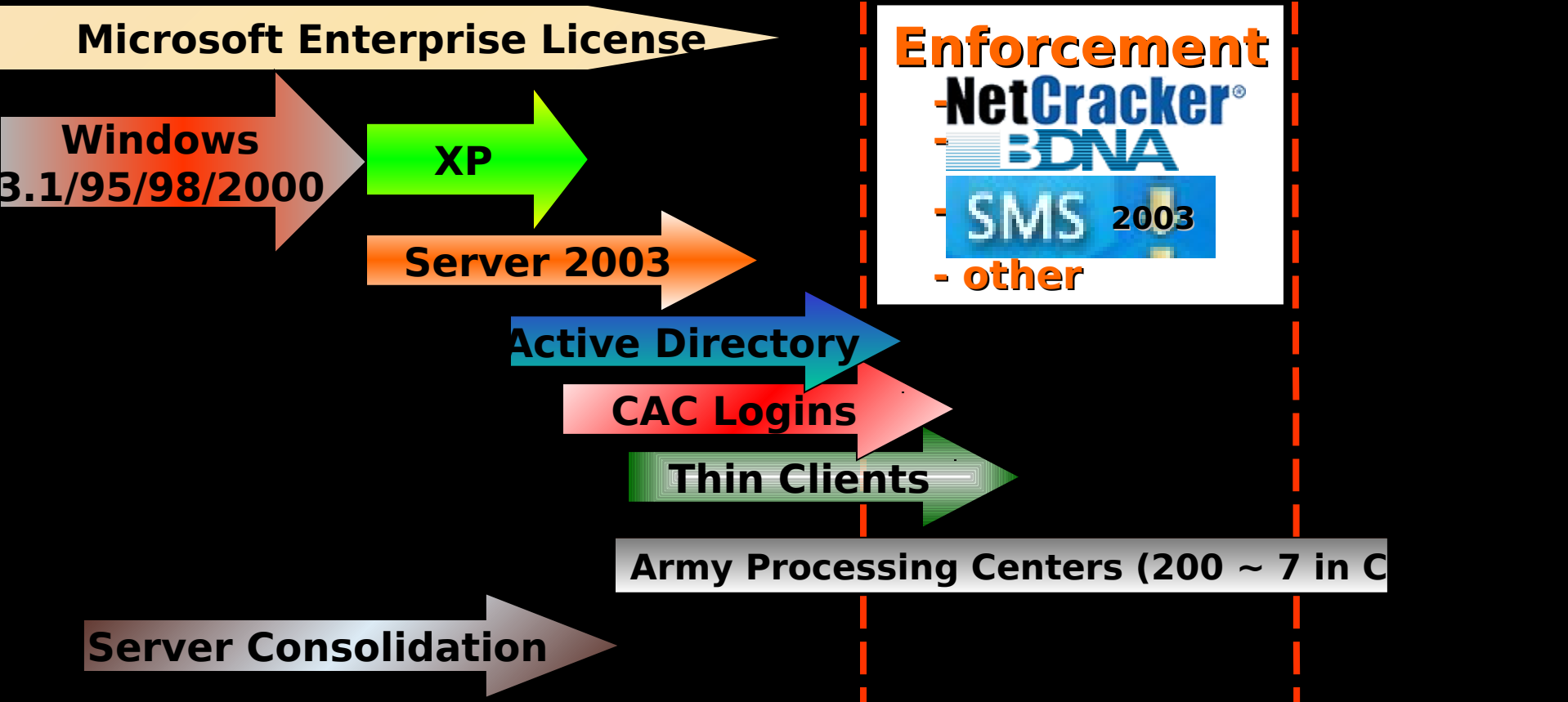


Goal 3

Protect and defend the Army's systems, networks, and information.

- Army IA Policy Compliance
- Cryptographic Modernization Prog
- FISMA
- Electronic Key Management Syste
- Information Systems Protection Solutions Development
- **IA Tools & Processes** (eYe Retina, Hercules, Reverse Web Proxy, Firewalls, Army Web Risk Assessment Team)
- **CAC PKI** and eGov (**HSPD-12, CAC/PKI Logon**/DoD PKI Architecture, Digital Signature Capability)
- **DoD Biometrics Enterprise Management** (Strategy, Policy, Architecture, Requirements Development & Operations (ABIS, BISA)

Securing the Network



20 JUL 2005 AKM Guidance Memo-IT Portfolio Governance

(80% reduction of redundant / stove-piped IT investments)

Security
Total Cost of Ownership
Best Business Practices
Support the Future Force

Secure and Reliable Identification

HSPD-12

The White House
President George W. Bush

For Immediate Release
Office of the Press Secretary
August 27, 2004

Homeland Security Presidential Directive/Hspd-12

Subject: Policy for a Common Identification Standard for Federal Employees and Contractors

(1) Wide variations in the quality and security of forms of identification used to gain access to secure Federal and other facilities where there is potential for terrorist attacks need to be eliminated. Therefore, it is the policy of the United States to enhance security, increase Government efficiency, reduce identity fraud, and protect personal privacy by establishing a mandatory, Government-wide standard for secure and reliable forms of identification issued by the Federal Government to its employees and contractors (including contractor employees).

(2) To implement the policy set forth in paragraph (1), the Secretary of Commerce shall promulgate in accordance with applicable law a Federal standard for secure and reliable forms of identification (the "Standard") not later than 6 months after the date of this directive in consultation with the Secretary of State, the Secretary of Defense, the Attorney General, the Secretary of Homeland Security, the Director of the Office of Management and Budget (OMB), and the Director of the Office of Science and Technology Policy. The Secretary of Commerce shall periodically review the Standard and update the Standard as appropriate in consultation with the affected agencies.

"Secure and reliable forms of identification" for purposes of this directive means identification that (a) is issued based on sound criteria for verifying an individual employee's identity; (b) is strongly resistant to identity fraud, tampering, counterfeiting, and terrorist exploitation; (c) can be rapidly authenticated electronically; and (d) is issued only by providers whose reliability has been established by an official accreditation process. The Standard will include graduated criteria, from least secure to most secure, to ensure flexibility in selecting the appropriate level of security for each application. The Standard shall not apply to identification associated with national security systems as defined by 44 U.S.C. 3542(b)(2).

(4) Not later than 4 months following promulgation of the Standard, the heads of executive departments and agencies shall have a program in place to ensure that identification issued by their departments and agencies to Federal employees and contractors meets the Standard. As soon as practicable, but in no case later than 8 months after the date of the Standard, the heads of executive

"Secure and reliable forms of identification" means identification that:

1) is issued based on sound criteria for verifying an individual employee's identity
2) is strongly resistant to identity fraud, tampering, counterfeiting, and terrorist exploitation
3) can be rapidly authenticated electronically; and
4) is issued only by providers whose reliability has

process."

DoD is executing NOW!!!

"…require the use of identification by Federal employees and contractors that meets the Standard in gaining physical access to Federally controlled facilities and logical access to Federally controlled information systems."

FIPS Pub 201

FIPS PUB 201

FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATION

Personal Identity Verification (PIV)
of
Federal Employees and Contractors

Computer Security Division
Information Technology Laboratory
National Institute of Standards and Technology
Gaithersburg, MD 20899-8900

February 25, 2005

- Standard for one federal identity card.
- HSPD-12 required Secretary of Commerce (NIST) produce: "a Federal standard for secure and reliable

Industry Partners will need to be on-board!!

Tokens

- "something you are" (biometric) + "something you have" (the card).
- "something you know" (PIN) + "something you have" (the card). This provides for a higher level of authentication assurance.

15 MA… Call

Why Thin Client Technology??

- Greater Security:
  - Security managed at the server
  - Centralized configuration management and technical support
- Economical:
  - Less expensive long term cost
  - Decreases maintenance and replacement cost
  - Reduces total cost of ownership
- Efficiency:
  - Reduces bandwidth requirements on

Soldiers use Thin Client at Walter Reed

Leverage the Army Small Computer Progra Consolidated Buy when implementing Thin Client Technology

ASCP
ARMY SMALL COMPUTER PROGRAM
it e-mart

BFC Facility

- New BFC re-locatable facility scheduled for summer 2006
- Senate appropriated $7M for the facility
- Part of overall $35M appropriation for biometrics activities
- Co-located with FBI CJIS property

Page A1, Local Saturday, Oct. 8, 2005 A11

Staff photo by Bob Shaw

Friday. Here, left to right, Pat Gruber and ...una Lee Matheny.

...a Lee ...een a ...e than ...to see ...n for ...s busy ...ing a ...ch pie ...Band ...rea is ...1 p.m. ...Martin,

roll and gospel," Martin said.

Steve Ross and his wife, Sweetheart, are scheduled to entertain children today with a magic show and face painting.

The 3 p.m. auction will feature items from area businesses as well as local and state dignitaries.

Pine Bluff resident Ernest Matheny said he comes for the music and, of course, the food.

Senate earmarks $7 million for biometrics fusion center

From staff reports

CLARKSBURG — More than two years after initially announcing funding for a permanent Biometrics Fusion Center in Clarksburg, the U.S. Senate has approved an additional $7 million.

The approval came Friday. The Fiscal Year 2006 Defense Appropriations bill now moves to a House conference committee.

In July 2003, the Senate approved more than $13 million for the project. About $1.4 million was allocated for planning and design of a permanent center that is expected to be constructed inside the FBI's 1,000-acre complex in Clarksburg.

In a separate piece of legislation that year, more than $24.3 million in biometric security funding was included in the Fiscal Year 2004 Defense Appropriations bill. About half of that was allocated to the center, then located at the Harrison-Marion Regional Airport.

The center has since moved to downtown Clarksburg.

The permanent center, estimated to cost $26.6 million, is expected to employ up to 150 workers, Sen. Robert C. Byrd's office has said.

The newest piece of funding is for construction of the 25,000-square-foot building planned for the permanent center, according to a release from Byrd's office.

With planning already under way, this funding should allow the Army to begin construction in the coming months, according to Byrd's office.

Including the $7 million, the bill includes more than $35 million for overall Department of Defense biometrics activities.

The Biometrics Fusion Center has been working very closely with the FBI, using the emerging technology to identify people who may pose a threat to national security.

The center has developed an automated system to identify and catalog the fingerprints of detainees from Iraq and Afghanistan.

The database is housed within the FBI's fingerprint complex and processes, searches and matches fingerprints taken from enemy combatants and others to help identify national security threats.

The center also has developed a system to control access to military installations in Iraq.

The U.S. Army-administered center in Clarksburg tests high-end commercial identification software for military applications.

Ice truck crashes

Goal 4

Ensure Army information management and information technology investments maximize Joint and Army capabilities

- Implementation of Portfolio Management (PfM) Tool
- Army Information Technology Budget
- Domain & Capital Planning Integration
- Add C4IM COTS to MTOE/TOE/TDA
- IT Purchasing Pamphlet
- Monitoring of Army Purchases of Non-Pre-approved IT Equipment
- AKM Goal 1 Waiver Process
- **Enterprise licensing/purchasing**

Each Portfolio Area contains at least three investment areas, covering all CIO MDEPs

Flexible Enterprise Solutions

Information Technology Enterprise Solutions –Services (ITES-2S)

$20B over 9-years

Provides Army Enterprise Infrastructure and Infostructure Services World-wide to support Command, Control, Communications, Computers, and Information Management (C4IM)

Projected Award – Mid April 2006

Flexible Enterprise Solutions

Information Technology Enterprise Solutions
-Hardware (ITES-2H)
-IDIQ Contract
Valued at $10B over 10-years

Purchase or lease network environment products, including servers, workstations, Thin-clients, storage systems, networking & communications Equipment, VTC solutions & more

Projected award – July 2006

Flexible Enterprise Solutions

Army Desktop & Mobile Computing (ADMC-2) ID/IQ Contract

Valued at $5B over 10-years

Life-cycle sales of $1.5B

For desktops, notebooks, tablets, PDAs, printers, digital cameras, projectors & peripherals

The first Army Consolidated Buy resulted in Army Cost Avoidance of $13.6M

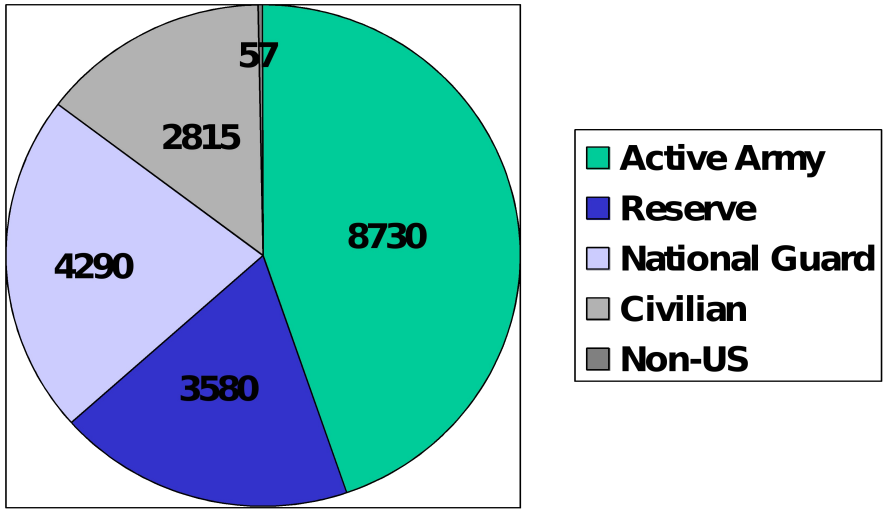
Goal 5

Develop the Army's information technology and information management knowledge and skills to support mission needs.

- IT Management – Civilian Career Program 34
- IM/IT Competencies
  - PDP Campaign
  - Course Development on NSPS Cornerstones
  - Development of Certification Programs
- Army Knowledge Leaders Program
- **Army e-Learning Program Development**
- CIO Knowledge Management Training Development (Enterprise Architecture Course)
- **Support SIGCEN – LandWarNet University**

Army e-Learning Program

Enrollments This Month



Total Army Users: 240,969

Other Licensed Users/Unique Groups:

- **Contractors: 179**
- **Information Assurance: 2,444**
- **Grand Total Site Utilization: 243,592**

Course Utilization

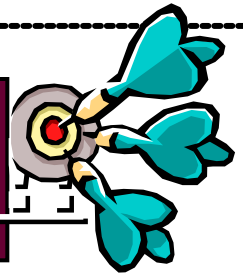
	This Month FY06	Total
Courses Accessed	85,203	209,653
Courses Completed	33,228	91,783
Enlisted	*21,636*	*60,084*
Warrant Officer	*571*	

Custom Learning Program Utilization:

Six Sigma Curricula: 3,53, In-Progress; 145 Completions

NSPS:
Employees: 4,704 In-Progress; 343 Completions
Managers: 2,745 In-Progress; 197 Completions

ur Soldiers and Civilians GET IT!!

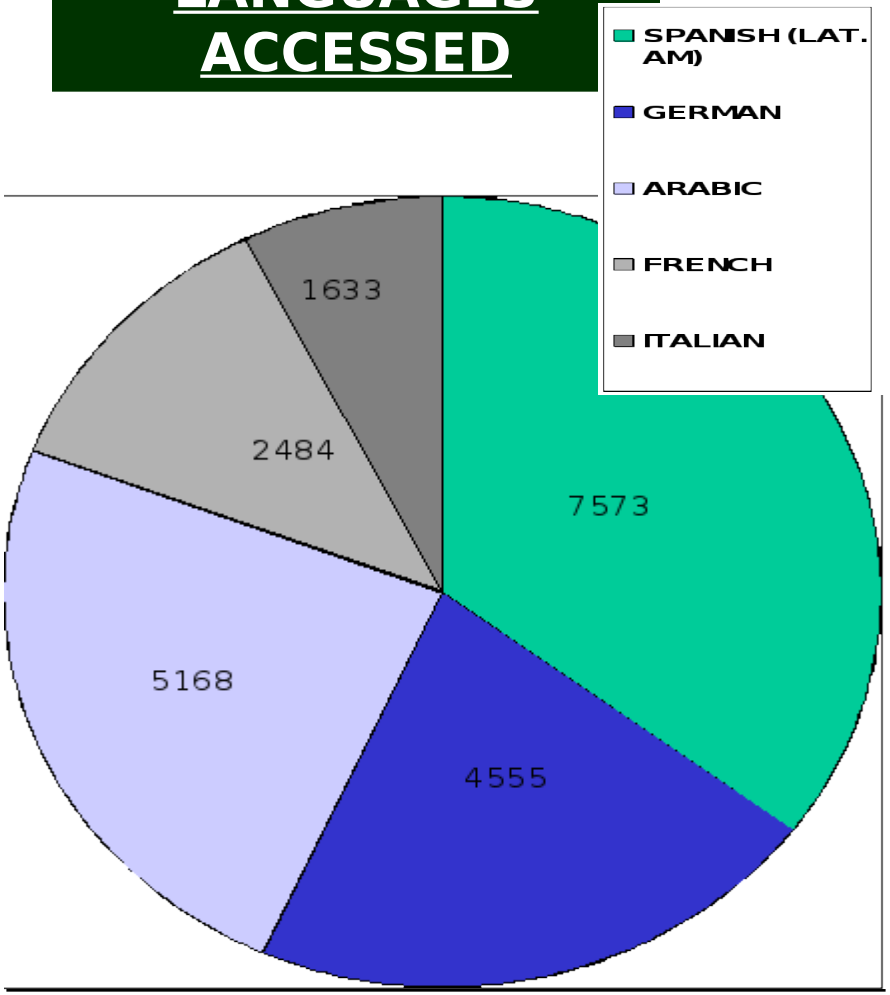


Army e-Learning Program

MOST POPULAR COURSES COMPLETED

	# of Courses Completed (CUM)
US Army Information Assurance Awareness	14728
Windows XP: Fundamentals	3789
Operating Systems and TCP/IP	3380
TCP/IP	3322
Encryption Technologies	3304
Identifying, Adding, and Removing System Components	3151
Planning and Implementing an Active Directory Infrastructure	2847
Firewalls and VPNs	2813
IP Addressing and Routing	2689
MS Windows Server 2003:	

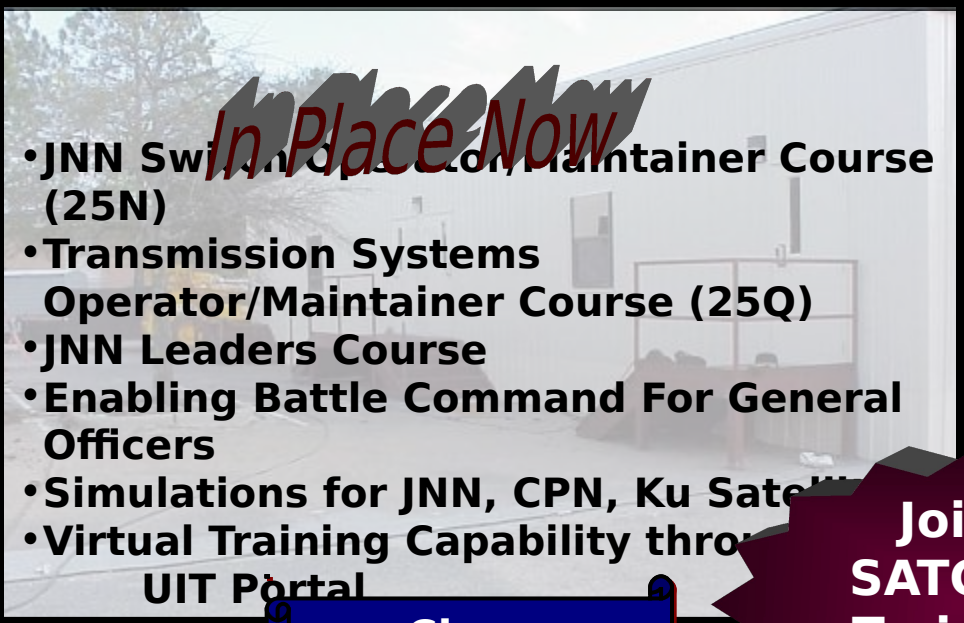
TOP FIVE LANGUAGES ACCESSED



Expanding the Training Base

In Place Now

- JNN Switch Operator/Maintainer Course (25N)
- Transmission Systems Operator/Maintainer Course (25Q)
- JNN Leaders Course
- Enabling Battle Command For General Officers
- Simulations for JNN, CPN, Ku Satellite
- Virtual Training Capability through UIT Portal



$30M to expand

Joint SATCOM Training Center

Cisco Academy

Scheduled for FY06

- Div G6/S6 Course
- ANCOC/BNCOC for LWN
- LWN Inserts to Officer/WO Training
- Joint C4 Planners Course
- NSC-Training Support
- Simulations for Tactical Hub Node and MRT

Goal 6

Deliver an integrated enterprise strategy that influences Joint and Army use of information management and information technology in furthering the warfighting capabilities

- Alignment of the Army IM & IT strategy with Army, Joint, Interagency, Multinational (JIM), DOD strategic plans
- Effectively communicate the IM & IT strategy to the Force
- Lead the Army CIO/G-6 Business Transformation Initiative (Lean Six Sigma)
- Lead the Army CIO/G-6 Performance Management Process (St ed

One Team - One Effort

Soldiers

Operators

Civilians

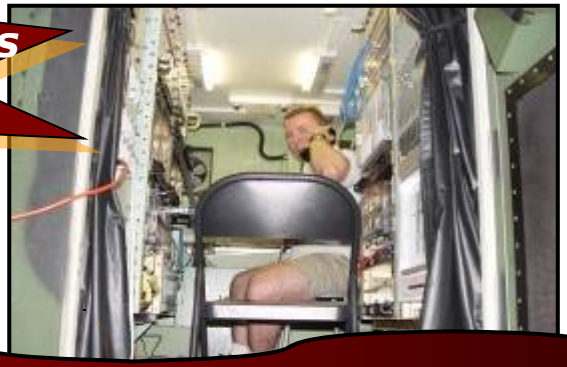
Trainers

Industry

Network Engineers

GENERAL DYNAMICS
Cisco Systems Microsoft
Sun DATA PATH
MOTOROLA intelligence everywhere ORACLE
COMPUWARE DELL

Technicians



Maintainers

450+ Industry Contractors Supporting in Theater

~50000 contractors in SWA

Take Aways

- A new operational reality…..
  - .. at war…for the foreseeable future
  - .. the enemy uses irregular tactics, terror, & asymmetric warfare
  - .. driving change at an unprecedented pace
- The 500 Day Plan supports the Army's interrelated strategies
  - .. focusing the organization, effort and resources
  - .. balances risk between current and future needs
  - .. provides the best capabilities to our Soldiers
- LandWarNet … The Army's contribution to the GIG
  - .. providing joint, net-centric enterprise services
  - .. converging information services. . . .voice, data, video
  - .. operates globally, in multiple environments - mud to office
- Implementing robust measures to protect Army Networks and Information Systems
- Transforming our business & acquisition strategy
- Building the training base…educating the force
  - .. institutional training

Questions & Thoughts

Transforming the Business Enterprise

LTG Steven W. Boutelle

Chief Information Officer/G-6

Call to Duty: 230 Years of Service to Our Nation!